

FIG. 1

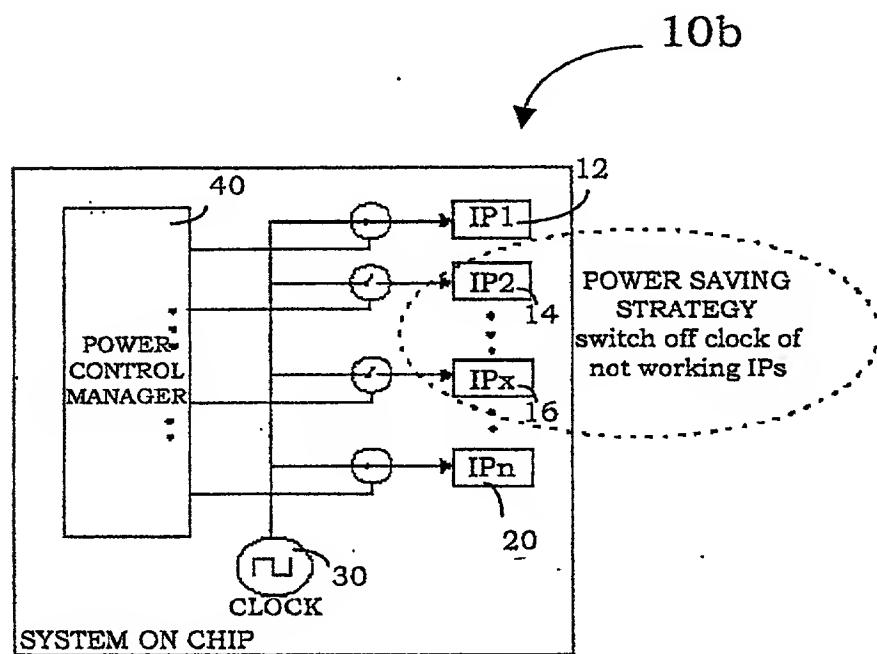


FIG. 2

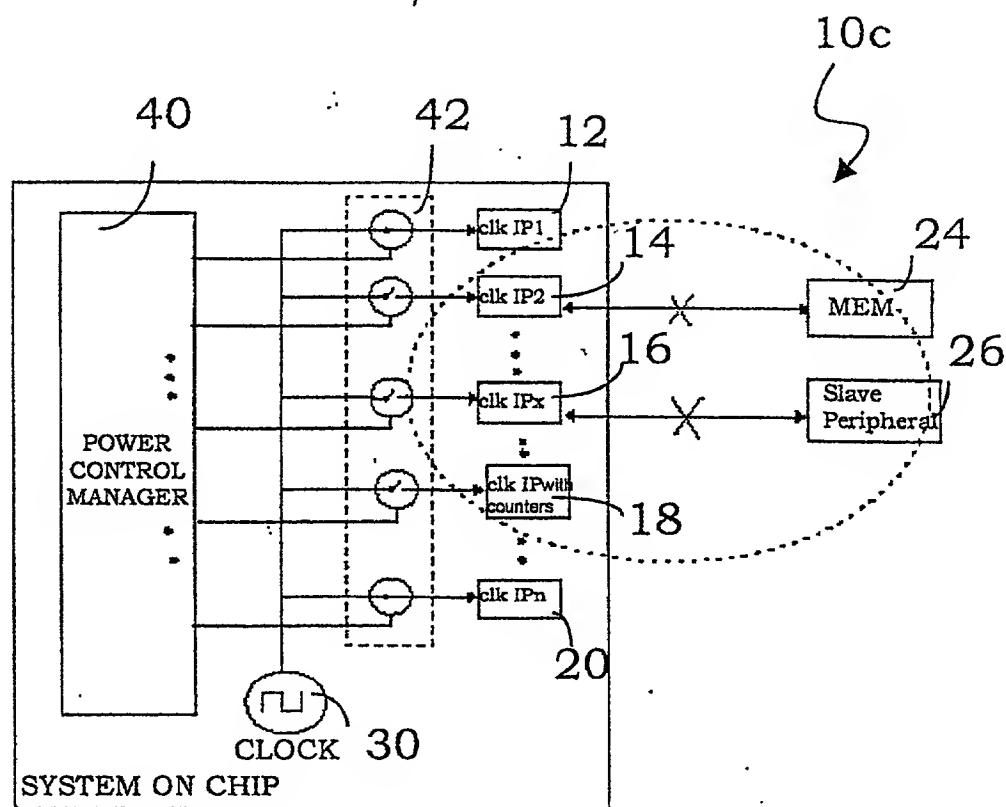


FIG. 3

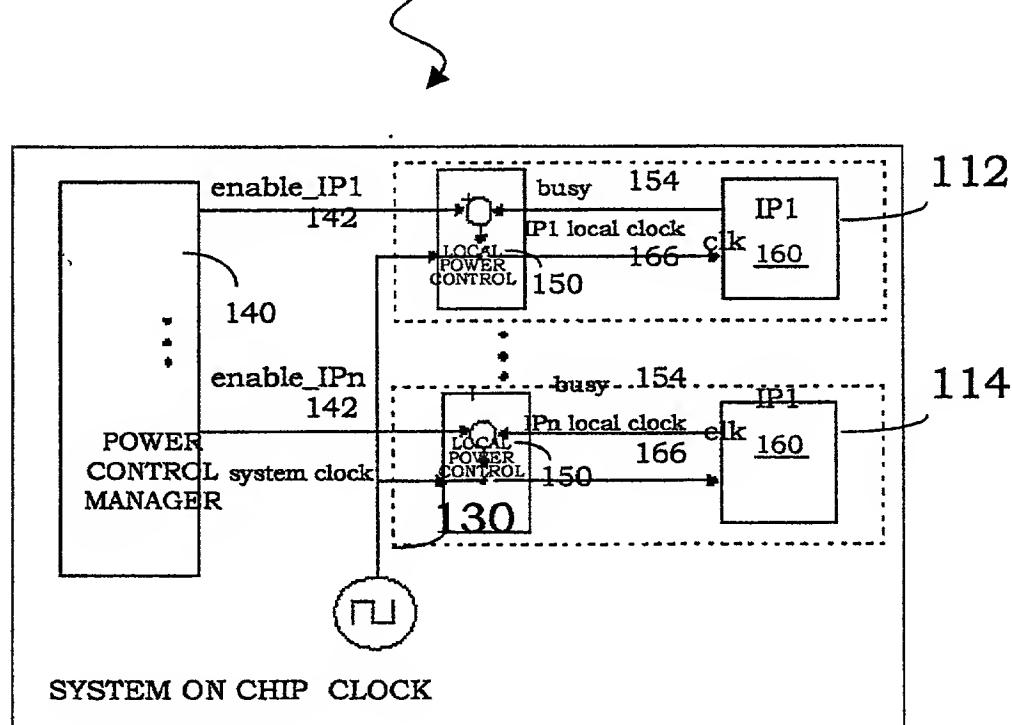


FIG. 4

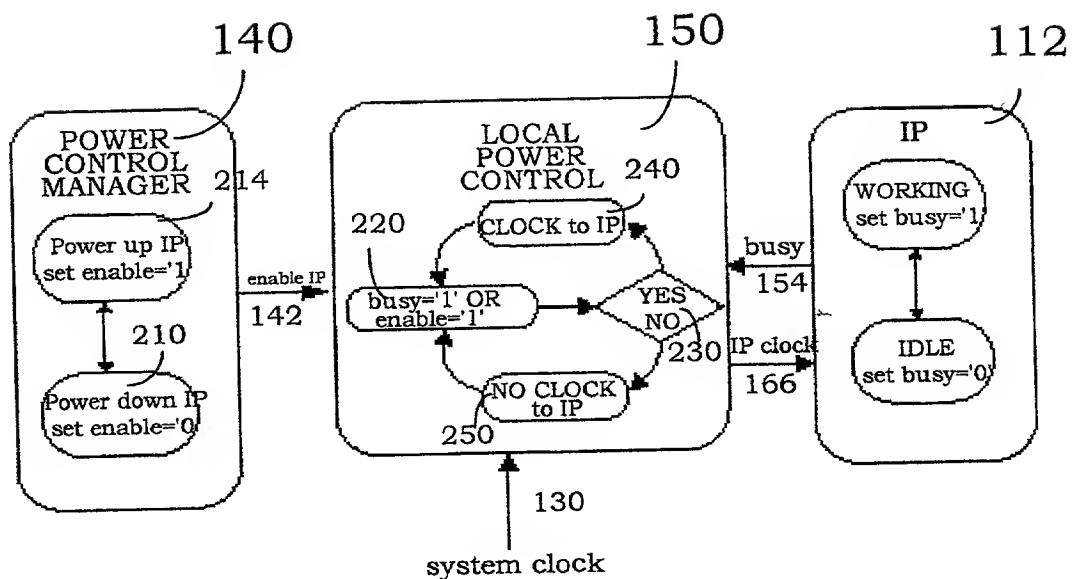


FIG. 5

Entering power down:

```

Power Down Manager:
foreach IP of System
    If 'power up' IP
        set IP enable to '1';
    else
        set IP enable to '0';
    end foreach;
    
```

```

IP:
    If 'idle' then:
        set busy to '0';
    else:
        set busy to '1';
    end if;
    
```

```

Local Power Control:
    If "IP busy='1' or IP enable='1'" then:
        deliver clock to IP;
    else:
        stop clock to IP
    end if;
    
```

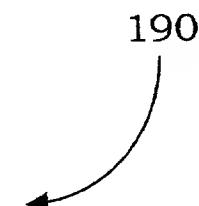


FIG. 6

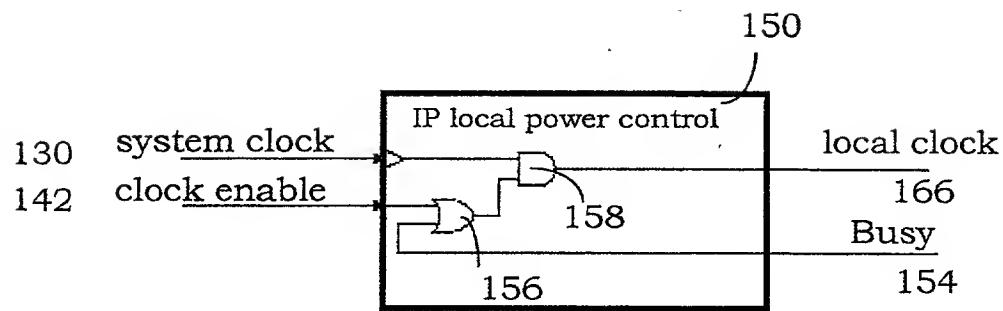


FIG. 7

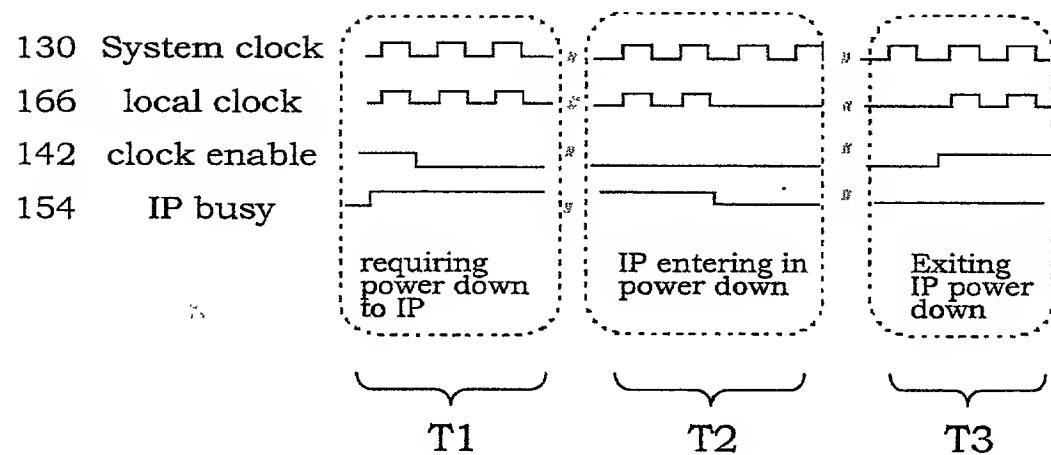


FIG. 8

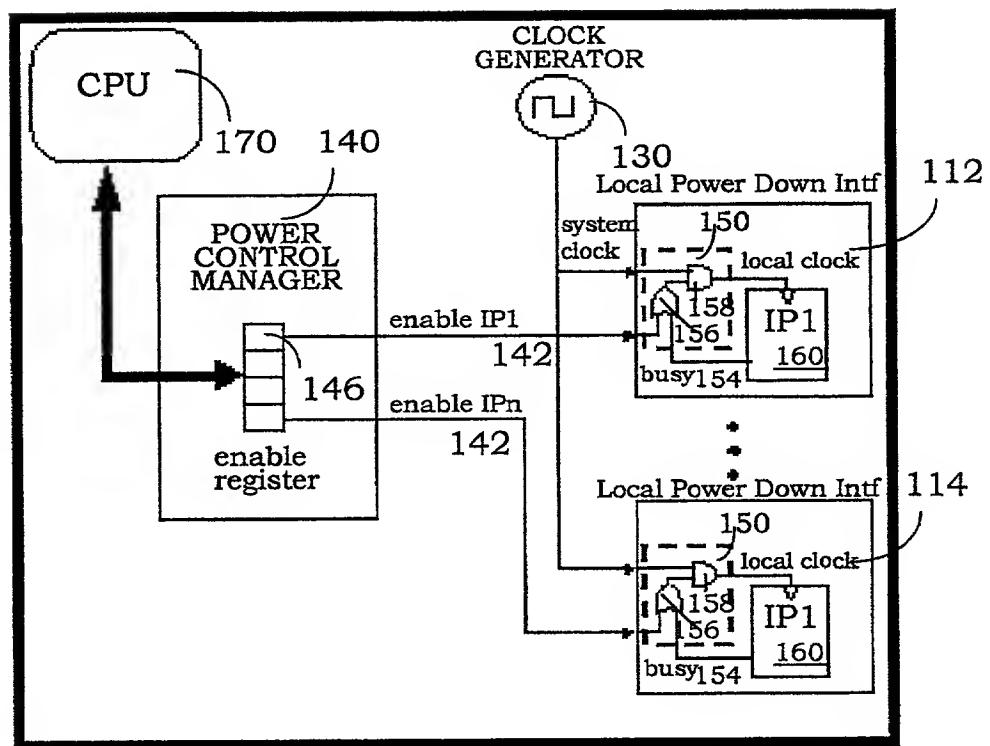


FIG. 9